

ANALYTICA CHIMICA ACTA

An international journal devoted to all branches of analytical chemistry

(Full texts are incorporated in CJESEVIER, a file in the Chemical Journals Online database available on STN International; Abstracted, indexed in: Aluminium Abstracts; Anal. Abstr.; Biol. Abstr.; BIOSIS; Chem. Abstr.; Curr. Contents Phys. Chem. Earth Sci.; Engineered Materials Abstracts; Excerpta Medica; Index Med.; Life Sci.; Mass Spectrum. Bull.; Material Business Alerts; Metals Abstracts; Sci. Citation Index)

VOL. 415 NOS. 1-2

CONTENTS

June 30th, 2000

Flow extraction

Monosegmented micro-volume liquid-liquid flow-extraction system based on intermittent pumping and spectroscopic detection

K. Carlsson and B. Karlberg (Stockholm, Sweden) 1

Solid-phase extraction

Static headspace, solid-phase microextraction and headspace solid-phase microextraction for BTEX determination in aqueous samples by gas chromatography

J.C. Flórez Menéndez, M.L. Fernández Sánchez, J.E. Sánchez Uría (Oviedo, Spain), E. Fernández Martínez (Gijón, Spain) and A. Sanz-Medel (Oviedo, Spain) 9

Preliminary evaluation of adsorbent-based mercury removal systems for gas condensate

A. Shafawi, L. Ebdon, M. Foulkes (Devon, UK), P. Stockwell and W. Corns (Kent, UK) 21

Selective pre-concentration and solid phase extraction of mercury(II) from natural water by silica gel-loaded dithizone phases

M.E. Mahmoud, M.M. Osman and M.E. Amer (Alexandria, Egypt) 33

Liquid chromatography mass spectrometry

Liquid chromatography mass spectrometry tandem for multiresidue determination of selected post-emergence herbicides after soil column extraction

A. Laganà, G. Fago, A. Marino and V.M. Penazzi (Rome, Italy) 41

Peptide sequencing

Detection of 7-*N,N*-dimethylaminosulfonyl-4-(2,1,3-benzoxadiazolyl) carbamoyl amino acids generated by post-column desulfuration in the simultaneous determination of the sequence and D/L-configuration of peptides using a fluorogenic Edman reagent, 7-*N,N*-dimethylaminosulfonyl-4-(2,1,3-benzoxadiazolyl) isothiocyanate

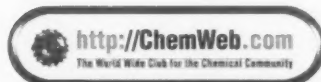
A. Toriba, Y. Huang, T. Santa and K. Imai (Tokyo, Japan) 57

Capillary electrophoresis

Short-end injection technique in capillary electrophoresis for dissolution testing of tablets

M.-D. Blanchin, B. Baalbaki (Montpellier, France), N. Bosc (Lyon, France) and H. Fabre (Montpellier, France) 67

(Continued overleaf)



<http://chemweb.com/gateways/elsevier.html>

CONTENTS
direct

This journal is part of **ContentsDirect**, the **free** alerting service which sends tables of contents by e-mail for Elsevier Science books and journals. You can register for **ContentsDirect** online at: www.elsevier.nl/locate/contentsdirect

Separation and determination of di- and tricarboxylic acids in fruits by capillary zone electrophoresis with amperometric detection W.-C. Yang, A.-M. Yu, Y.-Q. Dai and H.-Y. Chen (Nanjing, PR China)	75
Electrophoretic behaviour of zwitterionic compounds in capillary electrophoresis. Prediction of mobility of several quinolones D. Barrón, E. Jiménez-Lozano and J. Barbosa (Barcelona, Spain)	83
<i>Chemometrics</i>	
Simulation of mass spectra of noncyclic alkanes and alkenes using artificial neural network M. Jalali-Heravi and M.H. Fatemi (Tehran, Iran)	95
Robust spectral analysis by moving block bootstrap designs G. Meinrath (Freiberg, Germany)	105
Comments on the two-dimensional smoothing of data P. Nikitas and A. Pappa-Louisi (Thessaloniki, Greece)	117
<i>Sensors</i>	
Direct measurement of nitric oxide release from the rat hippocampus Y. Xian, W. Zhang, J. Xue, X. Ying and L. Jin (Shanghai, China)	127
Molecular imprinting polymer coated BAW bio-mimic sensor for direct determination of epinephrine C. Liang, H. Peng, A. Zhou, L. Nie and S. Yao (Changsha, China)	135
Amperometric on-line sensor for continuous measurement of hypoxanthine based on osmium-polyvinylpyridine gel polymer and xanthine oxidase bienzyme modified glassy carbon electrode L. Mao and K. Yamamoto (Tokyo, Japan)	143
Amperometric pH-sensing biosensors for urea, penicillin, and oxalacetate M. Stred'anský, A. Pizzariello, S. Stred'anská and S. Miertuš (Trieste, Italy)	151
Perchlorate-selective polymeric membrane electrode based on a gold(I) complex: application to water and urine analysis C. Sánchez-Pedreño, J.A. Ortuño and J. Hernández (Murcia, Spain)	159
<i>Electroanalytical chemistry</i>	
Determination of heavy metals in honey by anodic stripping voltammetry at microelectrodes G. Sanna, M.I. Pilo, P.C. Piu, A. Tapparo (Sassari, Italy) and R. Seeber (Modena, Italy)	165
Quantifying elemental sulfur (S^0), bisulfide (HS^-) and polysulfides (S_n^{2-}) using a voltammetric method T.F. Rozan (Lewes, DE, USA), S.M. Theberge (Waterville, ME, USA) and G. Luther III (Lewes, DE, USA)	175
Coulometric titration study of the redox behavior and precise determination of hexachloroiridate(IV) ion and its monoquo-chloro complex with electrogenerated bi-intermediates S. Dong, C. Wu, K. Li (Kunming, China), Z. Chai, X. Mao and X. Dai (Beijing, China)	185
Simultaneous determination of retinal, retinol and retinoic acid (all- <i>trans</i> and 13- <i>cis</i>) in cosmetics and pharmaceuticals at electrodeposited metal electrodes L.-H. Wang (Tainan, Taiwan)	193
<i>Cytotoxicity testing</i>	
Cytotoxicity testing through cell adhesion to a pattern of collagen matrix T. Murakami (Kanagawa, Japan)	201
<i>Chemiluminescence</i>	
Study of enhancement effects in the chemiluminescence method for Cr(III) in the $ng\ l^{-1}$ range C. Xiao (Oak Ridge, TN, USA), D.W. King (Waterville, ME, USA), D.A. Palmer and D.J. Wesolowski (Oak Ridge, TN, USA)	209
<i>Electrothermal atomic absorption spectrometry</i>	
Enhancement of the atomic absorption signal by silicate at electrothermal atomic absorption spectrometry I. Nukatsuka, K. Anezaki, S. Kubota and K. Ohzeki (Hirosaki, Japan)	221
<i>Photon electron rejecting alpha liquid scintillation</i>	
Selective determination of polonium by photon electron rejecting alpha liquid scintillation (PERALS [®] System) C. Véronneau, J. Aupiais (Bruyères-le-Châtel, France) and N. Dacheux (Orsay, France)	229
<i>Author Index</i>	239
<i>Calendar of forthcoming meetings</i>	NI

